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JA 0110758

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SUMITOMO METAL IND KK

SUMQ 20.02.79

*JS 5110-758

20.02.79-JA-019315 (26.08.80) C22c-38/24

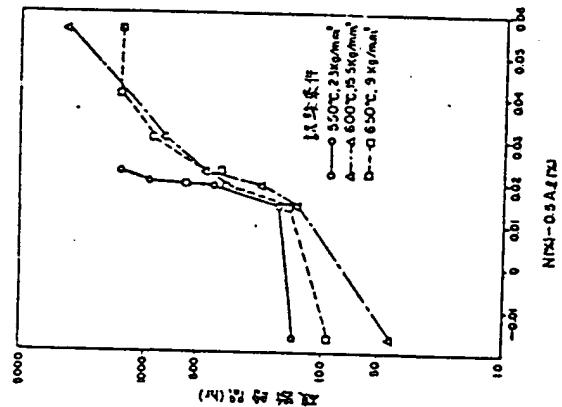
High temp. creep resistant chromium steel - has controlled relationship between nitrogen and aluminium contents and includes Molybdenum, vanadium etc.

Steel which has a high creep strength for a long time at a high temp. partic. $>550^{\circ}\text{C}$, consists of C 0.02-0.22%, Si $<1.0\%$, Mn $<1.0\%$, Cr 5-13%, Mo 0.5-2.5%, V 0.01-0.5% and N 0.015-0.10%, additional Ni $<1.5\%$ and ≥ 1 of W $<1.5\%$, Ti, Zr, Nb and Ta $<0.5\%$ respectively and B $<0.05\%$, and the balance Fe with incidental impurities of Al $<0.02\%$ and satisfying the relation $\text{N}-0.5\text{Al} \geq 0.015\%$.

After normalising and tempering treatment, structure of the steel comprises fine chromium nitride, carbides of Mo and V and carbonitrides of W, Ti, Zr, Nb and Ta pptd. and dispersed in a martensitic or ferrite-tempered martensitic matrix. (6pp53).

M(27-A4, 27-A4C, 27-A4M, 27-A4N, 27-A4V, 27-A4X).

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